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## *CFD solutions for Automotive Design*

### **External Aerodynamics**

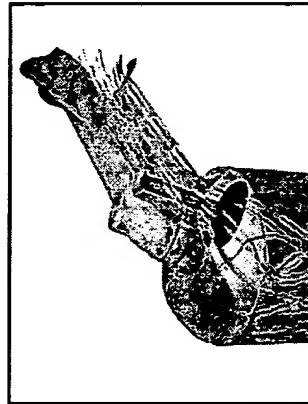
Solution of the exterior flow field around a simplified model of a passenger sedan enables the aerodynamics of the vehicle to be improved. By inclining the model at an angle to the incoming flow, one can gain insight into the stability of the vehicle in a cross wind.



### **Intake Valves**

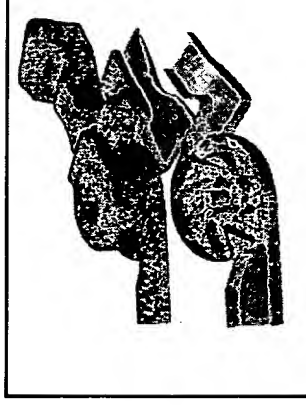
Steady-state flow bench tests on intake valves at various valve lifts may be simulated using CFD. Mass flow predictions have been shown to closely match experimental data for a range of inlet pressures on the geometry shown.

*Courtesy of Cosworth.*



## Pumps

Water pumps can be analyzed using the multiple reference frame technique. The pressure distribution and flow split can be determined for various operating points using the same model.



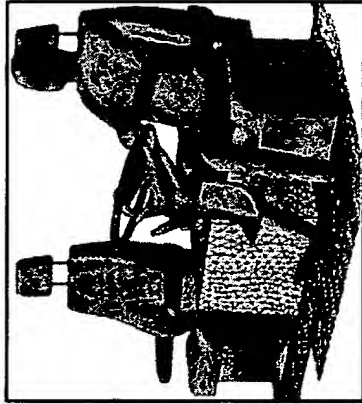
## Engine Cooling

CFD analysis of engine cooling jackets enables the design to be optimized for increased cooling effectiveness and reduced flow losses. Fluent simulations have been successful in reducing the turnaround time so that the analysis can be completed during the early design phase. To simulate integrated water pumps, the multiple reference frame technique is used.



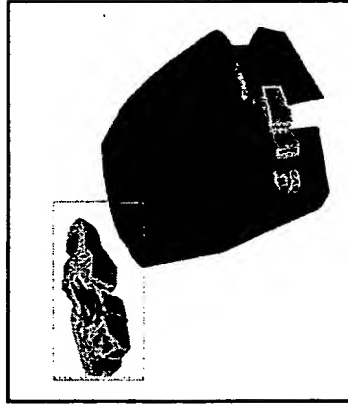
## Vehicle Interior

Passenger comfort is the aim of vehicle climate control. A computational model of the interior of the vehicle yields comfort indicators that allow the design to be improved.



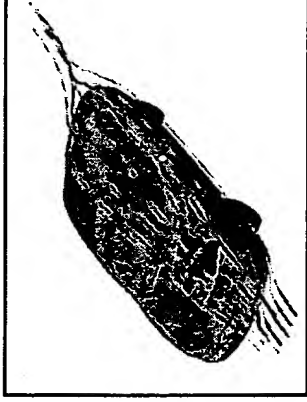
## Air Handling Systems

Air handling units contain complex components, such as blowers, heater cores, doors, and defroster nozzles. Fluent's CFD technology allows complete air handling units to be rapidly modeled early in the design cycle, reducing costly prototyping.



## Underhood Flow Simulation

The flow through the underhood and underbody regions of a complete vehicle can be modeled in detail. The split between the underhood and exterior flows is accurately captured, making the problem of underhood thermal management more tractable.

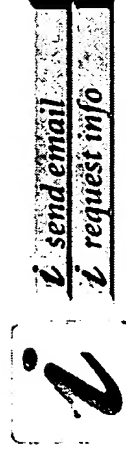


## Exhaust Manifold

Exhaust manifold back pressure and heat dissipation have significant effects on automotive engine performance. CFD analysis can reveal high localized temperatures as well as regions of high pressure loss.



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